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- FIG. 27. *Spirifer websteri* Fenton. Rockford, Iowa. A distinct species of the *orestes* group. I originally referred to this form the one shown in Figs. 28-31, but this was incorrect.
- FIGS. 26; 28-31. *Spirifer* species undescribed. Rockford, Iowa. Another species of the group of *S. orestes* H. & W. *Spirifer* zone; about equally characteristic of Rockford and Hackberry Grove.

EXPLANATION OF PLATE

- FIG. 1—2a. *Naticopsis gigantea* Hall and Whitfield. Hackberry Grove, Ia.
- FIG. 3. *Naticopsis gigantea* Hall and Whitfield. A large specimen, upper whorls restored. Hackberry Grove, Iowa.
- FIG. 4. *Floydia concentrica multisinuata* Fenton. Holotype. Rockford, Iowa.
- FIG. 5.—5a. *Floydia concentrica* Webster. Fig. 5; portion of a large specimen. Fig. 5a; cross-section of shell of specimen shown in Fig. 5. Rockford; Iowa.
- Figures 1-3 are characteristic *Spirifer* zone forms from Hackberry Grove. Figures 4-5 show two typical specimens from the upper part of the *Spirifer* zone at Rockford.

A Consideration of Certain Genera Proposed by Ehrhart.

BY HOMER D. HOUSE

The question of what constitutes proper publication of a genus has received more than a little attention both in codes, proposed, promulgated or adopted, and by individual expression of opinion. A new genus published today without description but merely by the implication or indication of a type species would certainly seem inadequately published. However any code or set of rules which is retroactive is sure to encounter perplexing situations, which lead sooner or later to various evasions or deliberate exceptions.

This article deals with a set of generic names published by Friedrich Ehrhart in 1789 (*Beitrage zur Naturkunde und den damit verwandten Wissenschaften*, etc. 4: 146-148. 1789). Like many genera published by Rafinesque, Sweet, and several other early writers these genera were published without description, merely by the designation of a previously published species. The frequency with which this sort of generic publication occurs indicates that it must have been at the time regarded as a quite proper method. Many of Necker's genera are now regarded as

invalid because no species were indicated, although not a few of them have been more or less commonly recognized and used in floras and manuals up to within a few years ago.

Before passing to a detailed consideration of Ehrhart's genera it may not be out of place to enumerate a few commonly accepted generic names which were published by Rafinesque merely by the citation of a type species. More extended search would doubtless reveal other genera by other authors which belong in the same category.

Adlumia Raf.

Scoria (Hicoria) Raf.

Spathyema Raf.

Triadenum Raf.

Achroanthes Raf. (Malaxis Sw.)

Washingtonia Raf. (Osmorhiza Raf.)

Odostemon Raf.

Quamasia Raf.

Leptamnium Raf.

Thalesia Raf.

Leptilon Raf.

The number preceeding each of Ehrhart's names is that of the order in which he published them.

I.—PHAEOCEPHALUM Ehrh. Beitr. 4: 146. 1789.

(Rynchospora Vahl, Enum. 2: 229. 1806)

The type as indicated by Ehrhart, is *Schoenus fuscus* L. *Schoenus corniculatus* Lam. not being regarded as congeneric with this group is not included in the following enumeration of species formerly referred to Rynchospora.

<i>P. album</i> (L.)	<i>Rynchospora alba</i> (L.) Vahl
<i>P. axillare</i> (Lam.)	<i>R. axillare</i> (Lam.) Britton
<i>P. Baldwinii</i> (A. Gray)	<i>R. Baldwinii</i> A. Gray
<i>P. brachychaetum</i> (Sauv.)	<i>R. brachychaeta</i> Sauv.
<i>P. caducum</i> (Ell.)	<i>R. caduca</i> Ell.
<i>P. chapmanii</i> (M. A. Curtis)	<i>R. chapmanii</i> M. A. Curtis
<i>P. ciliatum</i> (Michx.)	<i>R. ciliata</i> (Michx.) Vahl
<i>P. compressum</i> (Carey)	<i>R. compressa</i> Carey
<i>P. Curtissii</i> (Britton)	<i>R. Curtissii</i> Britton
<i>P. cymosum</i> (Ell.)	<i>R. cymosa</i> Ell.
<i>P. decurrens</i> (Chapm.)	<i>R. decurrens</i> Chapm.

<i>P. dodecandrum</i> (Baldw.)	<i>R. dodecandra</i> Baldw.
<i>P. distans</i> (Michx.)	<i>R. distans</i> (Michx.) Vahl
<i>P. divergens</i> (M. A. Curtis)	<i>R. divergens</i> M. A. Curtis
<i>P. Earlei</i> (Britton)	<i>R. Earlei</i> Britton
<i>P. fasciculare</i> (Michx.)	<i>R. fascicularis</i> (Michx.) Vahl
<i>P. filifolium</i> (Torr.)	<i>R. filifolia</i> Torr.
<i>P. fuscoides</i> (Boeckl.)	<i>R. fuscoides</i> Boeckl.
<i>P. fuscum</i> (L.)	<i>Schoenus fuscus</i> L., <i>R. fusca</i> (L.) Ait. f.
<i>P. glomeratum</i> (L.)	<i>R. glomerata</i> (L.) Vahl
<i>P. gracilentum</i> (A. Gray)	<i>R. gracilenta</i> A. Gray
<i>P. Grayi</i> (Kunth)	<i>R. Grayi</i> Kunth
<i>P. inexpansum</i> (Michx.)	<i>R. inexpansa</i> (Michx.) Vahl
<i>P. intermedium</i> (Chapm.)	<i>R. intermedia</i> (Chapm.) Britton
<i>P. Kneiskernii</i> (Carey)	<i>R. Kneiskernii</i> Carey
<i>P. leptorhynchum</i> (C. Wr.)	<i>R. leptorhyncha</i> C. Wright
<i>P. microcarpum</i> (Baldw.)	<i>R. microcarpa</i> Baldw.
<i>P. milaceum</i> (Lam.)	<i>R. milacea</i> (Lam.) A. Gray
<i>P. mixta</i> (Britton)	<i>R. mixta</i> Britton
<i>P. palulum</i> (A. Gray)	<i>R. palula</i> A. Gray
<i>P. pallidum</i> (M. A. Curtis)	<i>R. pallida</i> M. A. Curtis
<i>P. perplexum</i> (Britton)	<i>R. perplexa</i> Britton
<i>P. Plankii</i> (Britton)	<i>R. Plankii</i> Britton
<i>P. plumosum</i> (Ell.)	<i>R. plumosa</i> Ell.
<i>P. proliferum</i> (Small)	<i>R. prolifera</i> Small
<i>P. punctatum</i> (Ell.)	<i>R. punctata</i> Ell.
<i>P. pusillum</i> (Chapm.)	<i>R. pusilla</i> Chapm.; M. A. Curtis
<i>P. rariflorum</i> (Ell.)	<i>R. rariflora</i> Ell.
<i>P. solitare</i> (R. M. Harper)	<i>R. solitaria</i> R. M. Harper
<i>P. schoenoides</i> (Ell.)	<i>R. schoenoides</i> (Ell.) Britton
<i>P. stipitatum</i> (Chapm.)	<i>R. stipitata</i> Chapm.
<i>P. Torreyanum</i> (A. Gray)	<i>R. Torreyana</i> A. Gray
<i>P. Traceyi</i> (Britton)	<i>R. Traceyi</i> Britton.

2.—*LEUCOCOMA* Ehrh. l. c. p. 146.

The type of this is designated as *Eriophorum alpinum* L. The genus has recently been taken up by Rydberg (*Leucocoma alpina* (L.) Rydb., Rocky Mountain Flora, 108. 1917).

11.—*LEIOPHYLLUM* Ehrh., l. c.

The type is designated as *Schoenus compressus* L., which is

Scirpus Carices Retz. (*Scirpus compressus* Pers., not Moench).

13.—TIPHOGETON Ehrh., l. c.

The type is designated as *Isnardia palustris* L., and since it is also the type of *Isnardia*, *Tiphogeton* becomes a synonym of *Isnardia*.

14.—HYDROPHILA Ehrh., l. c.

The type is designated as *Tillaea aquatica* L. The same species is made the type of *Tilleastrum* Britton (Bull. N. Y. Bot. Gard. 3: 1. 1903)

H. aquatica (L.) *Tillaea aquatica* L., *Tillaea simplex* Nutt., *Bulliarda aquatica* DC., *Tilleastrum aquatica* Britton.

H. Drummondii (T. & G.) *Tillaea Drummondii* T. & G., *Tilleastrum Drummondii* Britton.

H. Vaillantii (Willd.) *Tillaea Vaillantii* Willd., *Tilleastrum Vaillantii* Britton.

15.—PRATICOLA Ehrh., l. c.

The type is designated as *Thalictrum simplex* L., native of Europe. The name is not valid unless quite extensive segregation of the genus *Thalictrum*, as now constituted, should be made.

16.—LIMNAS Ehrh., l. c.

The type is designated as *Ophrys paludosa* L. This has been placed in the genus *Sturmia* Reichb. (1828), which is invalidated by *Sturmia* Hoppe (1799) and *Sturmia* Gaertn. (1805).

The writer has previously pointed out (Torr. Club Bul. 32: 378. 1905) that the type of *Orphys* L., is *Orphys ovata* L., and that *Listera* is a generic synonym. The type of *Malaxis* Sw. (1788) is *M. spicata*, congeneric with our native species now known as *M. monophylla* (L.) Sw., and *M. unifolia* Michx. *Ophrys paludosa* L., was also included by Swartz in *Malaxis*, and has been reported from Otter Tail County, Minn. and is common in Europe, so that *Limnas* Ehrh., must be regarded as a synonymous generic name of *Malaxis*. *M. paludosa* however, differs in certain important characters from our native species, and if separated from *Malaxis*, the generic name *Limnas* would be available for it.

21.—MARISCUS Ehrh., l. c.

The type is designated as *Schoenus mariscus* L. This name dating

from Haller, had already been taken up for this type by Zinn (Cat. Hort. Goett. 79. 1757). *Cladium* P. Br. (1756) being a hyponym, is not recognized in recent floras.

34.—*STYPHORRHIZA* Ehrh., l. c. p. 147.

The type is designated as *Polygonum viviparum* L., and as a genus is antedated by *Bistorta* (C. Bauhin) Miller.

37.—*HELLEBORINE* Ehrh., l. c.

The type is designated as *Serapias latifolia* which is the same as *Serapias helleborine* L., now recognized as the type of *Serapias*, so that *Helleborine* Ehrh. becomes another of the numerous synonyms of *Serapias*.

41.—*TRICHOPHYLLUM* Ehrh., l. c.

The type is designated as *Scirpus acicularis* L., so that *Eleocharis* R. Br. (1810) becomes a synonym of *Trichophyllum*.

<i>T. aciculare</i> (L.)	<i>Scirpus acicularis</i> L., <i>Eleocharis acicularis</i> R. & S.
<i>T. acuminatum</i> (Muhl.)	<i>Eleocharis acuminata</i> (Muhl.) Nees
<i>T. albidum</i> (Torr.)	<i>E. albida</i> Torr.
<i>T. arenicolum</i> (Torr.)	<i>E. arenicola</i> Torr.
<i>T. atropurpureum</i> (Retz.)	<i>E. atropurpurea</i> (Retz.) Kunth.
<i>T. Baldwinii</i> (Torr.)	<i>E. Baldwinii</i> (Torr.) Chapm.
<i>T. bicolor</i> (Chapm.)	<i>E. bicolor</i> Chapm.
<i>T. capitatum</i> (L.)	<i>Schoenus capitatus</i> L., <i>Scirpus tenuis</i> Willd., <i>Eleocharis tenuis</i> . Schultes, <i>E. capitata</i> (L.) R. Br.
<i>T. cellulosum</i> (Torr.)	<i>E. cellulosa</i> Torr.
<i>T. Chaetaria</i> (R. & S.)	<i>E. Chaetaria</i> R. & S.
<i>T. cylindricum</i> (Buckl.)	<i>E. cylindrica</i> Buckl.
<i>T. diandrum</i> (C. Wr.)	<i>E. diandra</i> C. Wright
<i>T. elongatum</i> (Chapm.)	<i>E. elongata</i> Chapm.
<i>T. Engelmanni</i> (Steud.)	<i>E. Engelmanni</i> Steud.
<i>T. intermedium</i> (Muhl.)	<i>E. intermedia</i> (Muhl.) Schultes
<i>T. intermedium</i> var. <i>Habereri</i> (Fernald)	Var. <i>Habereri</i> Fernald
<i>T. interstinctum</i> (Vahl)	<i>Scirpus interstinctus</i> Vahl, <i>Eleocharis interstincta</i> R. & S.

<i>T. lanceolatum</i> (Fernald)	<i>E. lanceolata</i> Fernald
<i>T. maculosum</i> (Vahl)	<i>E. maculosa</i> (Vahl) R. Br.
<i>T. monticulum</i> (Fernald)	<i>E. monticola</i> Fernald
<i>T. mutatum</i> (L.)	<i>E. mutata</i> (L.) R. & S.
<i>T. nodulosum</i> (Roth)	<i>E. nodulosa</i> (Roth) Schultes
<i>T. ochreatum</i> (Nees)	<i>E. ochreatea</i> (Nees) Steud.
<i>T. obtusum</i> (Willd.)	<i>Scirpus capitatus</i> Walt., Not L., <i>Scirpus obtusus</i> Willd., <i>Eleo-</i> <i>charis obtusa</i> Schultes.
<i>T. oblivaceum</i> (Torr.)	<i>E. olivacea</i> Torr.
<i>T. ovatum</i> (Roth)	<i>E. ovata</i> (Roth) R. & S.
<i>T. palustre</i> (L.)	<i>E. palusiris</i> (L.) R. & S.
Var. <i>calvum</i> (Torr.)	
Var. <i>glaucescens</i> (Willd.)	
Var. <i>vigens</i> (Bailey)	
<i>T. praticolum</i> (Britton)	<i>E. praticola</i> Britton
<i>T. proliferum</i> (Torr.)	<i>E. prolifera</i> Torr.
<i>T. Ravenelii</i> (Britton)	<i>E. Ravenelii</i> Britton
<i>T. Robbinsii</i> (Oakes)	<i>E. Robbinsii</i> Oakes
<i>T. rostellatum</i> (Torr.)	<i>E. Rostellata</i> Torr.
<i>T. simplex</i> (Ell.)	<i>Scirpus simplex</i> Ell., <i>Eleocharis</i> <i>simplex</i> A. Dietr. <i>Eleocharis</i> <i>tortilis</i> (Link) Schultes.
<i>T. Torreyanum</i> (Boeckl.)	<i>E. Torreyana</i> Boeckl.
<i>T. tuberculosum</i> (Michx.)	<i>E. tuberculosa</i> (Michx.) R. & S.
<i>T. tricostatum</i> (Torr.)	<i>E. tricostata</i> Torr.
<i>T. thermale</i> (Rydb.)	<i>E. thermalis</i> Rydb.
<i>T. viviparum</i> (Kunth)	<i>E. vivipara</i> Kunth.

44.—HYPOPITYS Ehrh., l. c.

The type is designated as *Monotropa hypopitys* L. As a generic group this had already been recognized by Adanson in 1763.

45.—CHAMAEMORUS Ehrh., l. c.

The type is designated as *Rubus chamaemorus* L. Some attempts have been made to segregate the genus *Rubus*, which contains, as is generally known, a number of distinct groups of species. Greene (Leaflets 1: 245. 1906) adopts the genus from Clusius, and it is apparently as worthy of recognition as a segregate of *Rubus*, as is *Rubacer*. (*Bossekia* Neck.) or *Oreobatus* Rydb.

The type is designated as *Ophrys cordata* L. This is congeneric

Ophrys ovata L., the type of *Ophrys*, and the name *Cardiophyllum* takes its place with *Listera* as a synonym of *Ophrys*.

78.—*AETOPTERON* Ehrh., l. c.

The type is designated as *Polypodium aculeatum* L. This is the type of *Polystichum* Roth, and antedates the publication of that fern genus by several years. The species of the United States which should be considered under this name number about eight. A contemporary paper in which these species are transferred to *Aetopteron*, has been submitted for publication to the American Fern Journal.

86.—*CORNILLA* Ehrh., l. c.

This is but a slight change in spelling of *Coronilla* L., and the type species, *Coronilla coronata* L., is also here designated as the type of *Cornilla* Ehrh.

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